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# COMBINATION KNOBS

Order data on pages 194-199

**OKW**  
GEHÄUSE  
SYSTEME



## WELL ADJUSTED



### THE PRODUCT

The name COMBINATION KNOBS stands for an exceedingly functional range of rotary buttons with a reliable collet fixture system.

They offer a versatile range of possible applications as round knobs, wing knobs and spindle-shaped knobs with a large selection of accessories.

### YOUR ADVANTAGE

Tried and tested collet fixture system. Convenient assembly of knobs from the front, easy adjusting (by means of an adjusting key, see accessory). Tight fitting of knobs on the axis.

Round, wing and spindle-shaped knobs with the same standardised design and with matt surface.

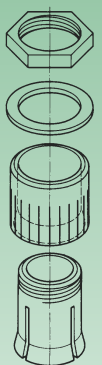
A large variety of functional accessories, e.g. covers in different colours and transparent dials. Easy push-on assembly.

### Sizes (mm)

ø 9, ø 10, ø 13,5, ø 16,  
ø 20, ø 23, ø 31, ø 40, ø 50  
(depends on type)

### Fastening

with collet fixture system  
for rotary potentiometer  
with shaft ends  
corresponding to  
DIN 41591



detailed drawings see our website  
[www.okw.com](http://www.okw.com)



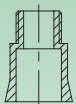
## FUNCTIONAL DESIGN

Sizes 10 and 13 have blind holes and screw fixing. From knob size 23 up through holes ① (sizes 16 + 20 stepped ②, except for axes 4 mm).

①



②



### YOUR ADVANTAGE

Torsion protection for axes 6/4.6 mm available as accessory. Suitable for round and wing knobs sizes  $\varnothing$  20 to 50 mm with 6 mm borehole.

We also produce our COMBINATION KNOBS in special colours, moq reserved. Please advise us of the colour and quantity you require.

### APPLICATIONS

Well-proven for electro-mechanical rotary potentiometers with shaft ends corresponding to DIN 41591, e.g. within the field of measuring, controlling, regulating.






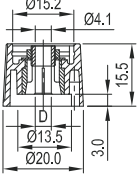
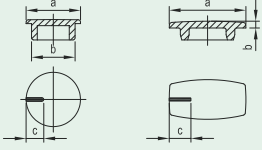



























ROUND KNOB		WING KNOB		SPINDLE-SHAPED KNOB		COVER			
ABS (UL 94 HB)		ABS (UL 94 HB)		ABS (UL 94 HB)		ABS (UL 94 HB) ...100 = indicator line white, otherwise in black			
Knob ø	Shape	Borehole D					without indicator line	with indicator line	
9		<b>ROUND KNOB</b> 4 mm, with chamfer		A 26 09 040			a = 8.0 b = 6.5 c = 2.6	<ul style="list-style-type: none"> <li> A 41 10 000</li> <li> A 41 10 002</li> <li> A 41 10 004</li> <li> A 41 10 005</li> <li> A 41 10 006</li> <li> A 41 10 007</li> <li> A 41 10 008</li> </ul>	<ul style="list-style-type: none"> <li> A 41 10 100</li> <li> A 41 10 102</li> <li> A 41 10 104</li> <li> A 41 10 105</li> <li> A 41 10 106</li> <li> A 41 10 107</li> <li> A 41 10 108</li> </ul>
10		<b>ROUND KNOB</b> 3 mm, with chamfer 1/8", with chamfer 4 mm, with chamfer	A 25 10 030	A 26 10 030	A 25 10 038	A 26 10 038			
13.5		<b>ROUND KNOB</b> 4 mm, with chamfer 6 mm, with chamfer	A 25 13 040	A 26 13 040	A 25 13 048	A 26 13 048	a = 11.2 b = 9.2 c = 3.0	<ul style="list-style-type: none"> <li> A 41 13 000</li> <li> A 41 13 002</li> <li> A 41 13 004</li> <li> A 41 13 005</li> <li> A 41 13 006</li> <li> A 41 13 007</li> <li> A 41 13 008</li> </ul>	<ul style="list-style-type: none"> <li> A 41 13 100</li> <li> A 41 13 102</li> <li> A 41 13 104</li> <li> A 41 13 105</li> <li> A 41 13 106</li> <li> A 41 13 107</li> <li> A 41 13 108</li> </ul>
		<b>WING KNOB</b> 6 mm, with chamfer		A 28 13 060					
16		<b>ROUND KNOB</b> 4 mm, without chamfer 6 mm, with chamfer 1/4", with chamfer	A 25 16 040	A 26 16 040	A 25 16 068	A 26 16 068	a = 13.5 b = 11.2 c = 4.0	<ul style="list-style-type: none"> <li> A 41 16 000</li> <li> A 41 16 002</li> <li> A 41 16 004</li> <li> A 41 16 005</li> <li> A 41 16 006</li> <li> A 41 16 007</li> <li> A 41 16 008</li> </ul>	<ul style="list-style-type: none"> <li> A 41 16 100</li> <li> A 41 16 102</li> <li> A 41 16 104</li> <li> A 41 16 105</li> <li> A 41 16 106</li> <li> A 41 16 107</li> <li> A 41 16 108</li> </ul>
		<b>WING KNOB</b> 6 mm, with chamfer		A 28 16 060					
		<b>SPINDLE-SHAPED KNOB</b> 3 mm, with chamfer 4 mm, with chamfer	A 23 16 040	A 24 16 030 A 24 16 040		A 24 16 048	a = 14.0 b = 1.2 c = 4.0	<ul style="list-style-type: none"> <li> A 50 16 000</li> <li> A 50 16 108</li> </ul>	<ul style="list-style-type: none"> <li> A 50 16 100</li> <li> A 50 16 108</li> </ul>



ARROW DISK	DISK	DIAL	STATOR	NUT COVER
<p>ABS (UL 94 HB)</p>	<p>ABS ...010 = indicator line white</p>	<p>Polycarbonate ...0 = symbols black ...9 = symbols silver</p>	<p>Aluminium indicator line black</p>	<p>ABS ...010 = indicator line white ...018 = indicator line black</p>
<p>a = 7.0 b = 10.1 c = 7.0</p> <p>A 42 10 000 A 42 10 002 A 42 10 008</p>		<p>a = 20.0 b = 7.0 c = 1.5</p> <p>(only for knob ø 10)</p> <p>A 44 10 060</p>		<p>a = 15.5 b = 14.0 c = 7.0 d = 2.9 e = 3.7</p> <p>(only for knob ø 10)</p> <p>A 75 10 000 A 75 10 010 A 75 10 018</p>
<p>a = 9.0 b = 13.6 c = 8.0</p> <p>A 42 13 000 A 42 13 002 A 42 13 008</p>		<p>a = 26.0 b = 8.0 c = 1.5</p> <p>A 44 13 010 A 44 13 020 A 44 13 049 A 44 13 060</p>		<p>a = 17.5 b = 15.7 c = 9.0 d = 3.2 e = 4.3</p> <p>A 75 13 000 A 75 13 010 A 75 13 018</p>
<p>a = 10.5 b = 16.3 c = 10.0</p> <p>A 42 16 000 A 42 16 002 A 42 16 008</p>	<p>a = 31.0 b = 16.5 c = 1.3</p> <p>A 73 16 000 A 73 16 010</p>	<p>a = 31.0 b = 14.5 c = 10.0 d = 2.5 e = 1.7</p> <p>(ø 16 with moulded on nut cover)</p> <p>A 44 16 001 A 44 16 010 A 44 16 020 A 44 16 060</p>	<p>a = 16.0 b = 10.1 c = 15.5</p> <p>A 60 16 019</p>	<p>a = 19.3 b = 17.6 c = 10.0 d = 3.3 e = 4.3</p> <p>a = 16.4 b = 14.6 c = 10.0 d = 3.3 e = 4.3 f = 10.2</p> <p>A 75 16 000 A 75 16 010 A 75 16 018 A 76 16 000 A 76 16 008</p>
				<p>a = 16.0 b = 14.8 c = 8.3 d = 3.3 e = 4.3</p> <p>A 51 16 000</p>

descriptions of standard colours see **page 199**



ROUND KNOB		SPINDLE-SHAPED KNOB				COVER			
ABS (UL 94 HB)						ABS (UL 94 HB) ...100 = indicator line white, otherwise in black			
									
Knob Ø	Shape	Borehole D					without indicator line	with indicator line	
20	<b>ROUND KNOB</b>	4 mm, without chamfer	A 25 20 040	A 26 20 040			a = 17.5	 A 41 20 000	A 41 20 100
		6 mm, with chamfer	A 25 20 060	A 26 20 060	A 25 20 068	A 26 20 068	b = 15.2	 A 41 20 002	A 41 20 102
		1/4", with chamfer	A 25 20 630				c = 5.5	 A 41 20 005	A 41 20 104
							 A 41 20 006	A 41 20 106	
							 A 41 20 007	A 41 20 107	
							 A 41 20 008	A 41 20 108	
23	<b>ROUND KNOB</b>	4 mm, without chamfer	A 25 23 040	A 26 23 040			a = 20.4	 A 41 23 000	A 41 23 100
		6 mm, without chamfer	A 25 23 060	A 26 23 060	A 25 23 068	A 26 23 068	b = 17.4	 A 41 23 002	A 41 23 102
		1/4", without chamfer	A 25 23 630		A 25 23 638		c = 6.5	 A 41 23 004	
							 A 41 23 005	A 41 23 105	
							 A 41 23 006	A 41 23 106	
							 A 41 23 007	A 41 23 107	
							 A 41 23 008	A 41 23 108	
	<b>SPINDLE-SHAPED KNOB</b>	4 mm, with chamfer		A 24 23 040			a = 20.9	 A 50 23 000	A 50 23 100
		6 mm, with chamfer		A 24 23 060		A 24 23 068	b = 1.2	 A 50 23 008	A 50 23 108
							c = 6.5		
31	<b>ROUND KNOB</b>	6 mm, without chamfer	A 25 31 060	A 26 31 060	A 25 31 068	A 26 31 068	a = 28.4	 A 41 31 000	A 41 31 100
		1/4", without chamfer	A 25 31 630				b = 26.0	 A 41 31 002	A 41 31 102
							c = 9.0	 A 41 31 005	
							 A 41 31 006		
							 A 41 31 007		
							 A 41 31 008	A 41 31 108	
	<b>SPINDLE-SHAPED KNOB</b>	6 mm, with chamfer		A 24 31 060		A 24 31 068	a = 29.0	 A 50 31 000	A 50 31 100
							b = 1.4	 A 50 31 008	A 50 31 107
							c = 9.5		A 50 31 108



ARROW DISK	DISK		DIAL	STATOR	NUT COVER	
<p>ABS (UL 94 HB)</p>	<p>ABS ...010 = indicator line white</p>		<p>Polycarbonate ...0 = symbols black ...9 = symbols silver</p>	<p>Aluminium indicator line black</p>	<p>ABS</p>	
<p>a = 13.0 b = 20.0 c = 12.0</p> A 42 20 000 A 42 20 002 A 42 20 008	A 73 23 010 		<p>a = 36.0 b = 12.0 c = 1.5</p> A 44 20 001 A 44 20 010 A 44 20 060	<p>a = 20.0 b = 10.1 c = 18.0</p> <p>A 60 20 019</p>	 	
<p>a = 14.3 b = 23.0 c = 16.5</p> A 42 23 000 A 42 23 002 A 42 23 008	<p>a = 31.0 b = 16.5 c = 1.3</p>	<p>A 73 23 010</p>	<p>a = 40.0 b = 16.3 c = 1.3</p> A 44 23 010 A 44 23 020 A 44 23 039 A 44 23 060	<p>a = 23.0 b = 10.2 c = 20.0</p> <p>A 60 23 019</p>	<p>a = 23.3 b = 20.0 c = 13.7 d = 3.3 e = 4.3</p> A 51 23 000 A 51 23 008	
<p>a = 19.5 b = 31.0 c = 16.5</p> A 42 31 000 A 42 31 002 A 42 31 008	<p>a = 40.0 b = 16.5 c = 1.6</p>	<p>A 73 31 000 A 73 31 010</p>	<p>a = 49.9 b = 16.5 c = 1.5</p> A 44 31 010 A 44 31 060		<p>a = 31.1 b = 28.0 c = 15.5 d = 3.3 e = 4.8</p> A 51 31 000 A 51 31 008	

descriptions of standard colours see **page 199**

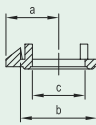
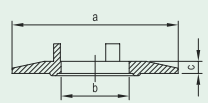
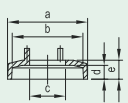






ROUND KNOB		SPINDLE-SHAPED KNOB				COVER			
ABS (UL 94 HB)						ABS (UL 94 HB) ...100 = indicator line white, otherwise in black			
Knob ø	Shape	Borehole D					without indicator line	with indicator line	
40	<b>ROUND KNOB</b> 	6 mm, without chamfer	A 25 40 060	A 26 40 060	A 25 40 068	A 26 40 068	a = 37.4	A 41 40 000	A 41 40 100
		8 mm, without chamfer	A 25 40 080				b = 34.4	A 41 40 002	
50	<b>SPINDLE-SHAPED KNOB</b> 	6 mm, with chamfer		A 24 40 060		A 24 40 068	c = 12.5	A 41 40 007	
							A 41 40 008		
50	<b>ROUND KNOB</b> 	6 mm, without chamfer	A 25 50 060	A 26 50 060	A 25 50 068		a = 47.4	A 41 50 000	A 41 50 100
							b = 44.4	A 41 50 008	A 41 50 107
						c = 14.5			

## ACCESSORIES FOR ROUND KNOBS / WING KNOBS AND SPINDLE-SHAPED KNOBS / COM-KNOBS

Article	Version / Application	Dim. in mm	Part-No.
	Locking device with stator For round knobs and wing knobs size 16 with dial only. Transparent, marking black.		A 61 16 010
	Locking device For universal use of round knobs, wing knobs and COM-KNOBS with dial.		A 61 00 000
	Adjusting key For correct adjusting of combination knobs (round knobs) with indicator line, dial and arrow disk. Knob mounting without difficulties.		Round knobs ø D <sub>1</sub> D <sub>2</sub> D <sub>3</sub> 10 13.5 16  A 64 02 005 20 23 31  A 64 03 005



ARROW DISK	DISK	NUT COVER
<p>ABS (UL 94 HB)</p> 	<p>ABS ...010 = indicator line white</p> 	<p>ABS</p> 
 <p>a = 24.5 b = 40.0 c = 25.0</p> <p><b>A 42 40 000</b></p>  <p><b>A 42 40 008</b></p>	 <p>a = 50.1 b = 24.0 c = 1.8</p> <p><b>A 73 40 010</b></p>	 <p>a = 40.3 b = 36.8 c = 20.0 d = 3.1 e = 4.6</p> <p><b>A 51 40 000</b></p>

**Standard colours knobs**

Combination knobs

Black, RAL 9005 

Dust grey, RAL 7037 


Covers (depends on size/type)

Black, RAL 9005 

Red, RAL F12/0-10 

Yellow, RAL F12/0-1 

Green, RAL F12/0-43 

Blue, RAL 5012 

Pebble grey, RAL 7032 

Dust grey, RAL 7037 


Arrow disk

Black, RAL 9005 


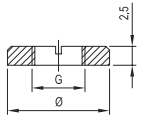


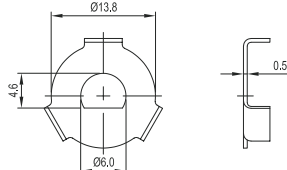
Red, RAL F12/0-10 

Dust grey, RAL 7037 

Dial

Transparent, bright surface  
with/without symbols 

**ACCESSORIES FOR ROUND KNOBS / WING KNOBS AND SPINDLE-SHAPED KNOBS / COM-KNOBS**

Article	Version / Application	Dim. in mm	Part-No.												
 <p>Round nut</p>	<p>For mounting of potentiometer at front panels. It fits under knob and nut cover (round knobs / wing knobs / spindle-shaped knobs / COM-KNOBS <math>\varnothing</math> 10 / 13.5 / 16 / 20 / 23 / 31 / 40 / 50).</p>		<table border="1"> <thead> <tr> <th>G</th> <th>Ø</th> <th>Part-No.</th> </tr> </thead> <tbody> <tr> <td>M7 x 0.75</td> <td>13.5</td> <td><b>A 62 07 009</b></td> </tr> <tr> <td>M10 x 0.75</td> <td>12.5</td> <td><b>A 62 10 009</b></td> </tr> <tr> <td>3/8" - 32G</td> <td>12.5</td> <td><b>A 62 95 009</b></td> </tr> </tbody> </table>	G	Ø	Part-No.	M7 x 0.75	13.5	<b>A 62 07 009</b>	M10 x 0.75	12.5	<b>A 62 10 009</b>	3/8" - 32G	12.5	<b>A 62 95 009</b>
G	Ø	Part-No.													
M7 x 0.75	13.5	<b>A 62 07 009</b>													
M10 x 0.75	12.5	<b>A 62 10 009</b>													
3/8" - 32G	12.5	<b>A 62 95 009</b>													
 <p>Spanner</p>	<p>For tightening round nuts.</p>		<b>A 63 00 000</b>												
 <p>Torsion protection</p>	<p>For torsion-proved mounting of knobs on profiled axes 6 / 4.6 mm. Suitable for round and wing knobs sizes <math>\varnothing</math> 20 to 50 with 6 mm borehole (not suitable for COM-KNOBS).</p>		<p>Bore 6 / 4.6 <b>A 66 00 064</b></p>												